

FIG. 1

200

Physical address format

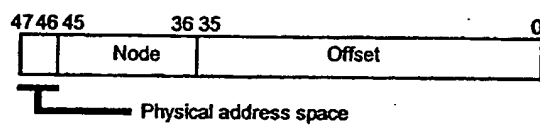


FIG. 2A

200

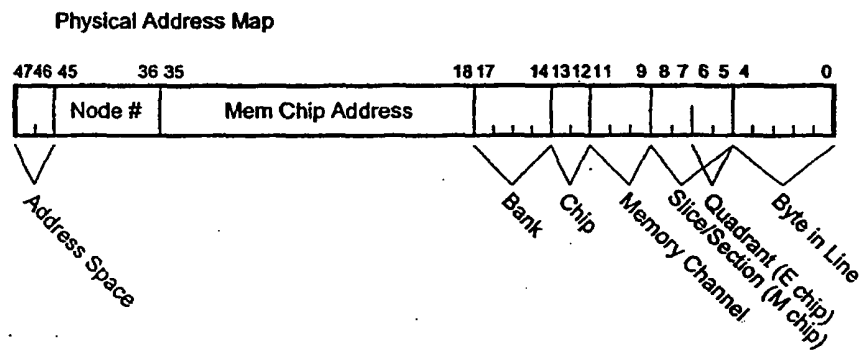


FIG. 2B

300  
↙

Virtual address format

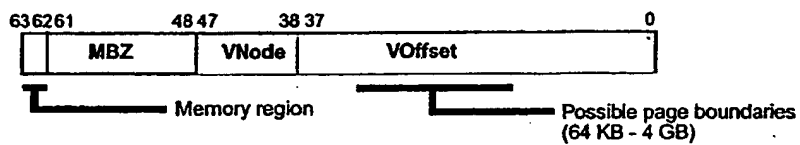
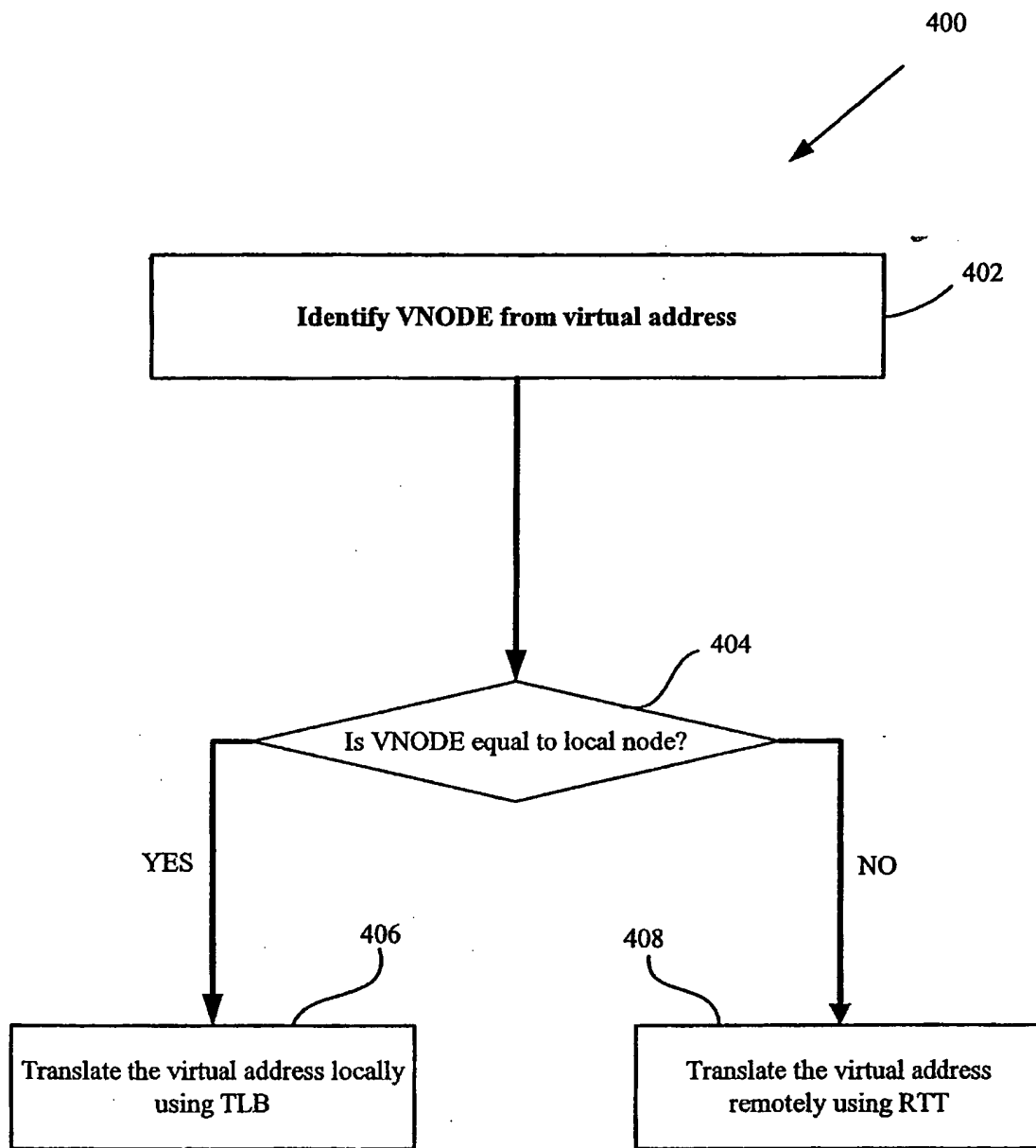


FIG. 3



**FIG. 4**

500

# Remote address translation

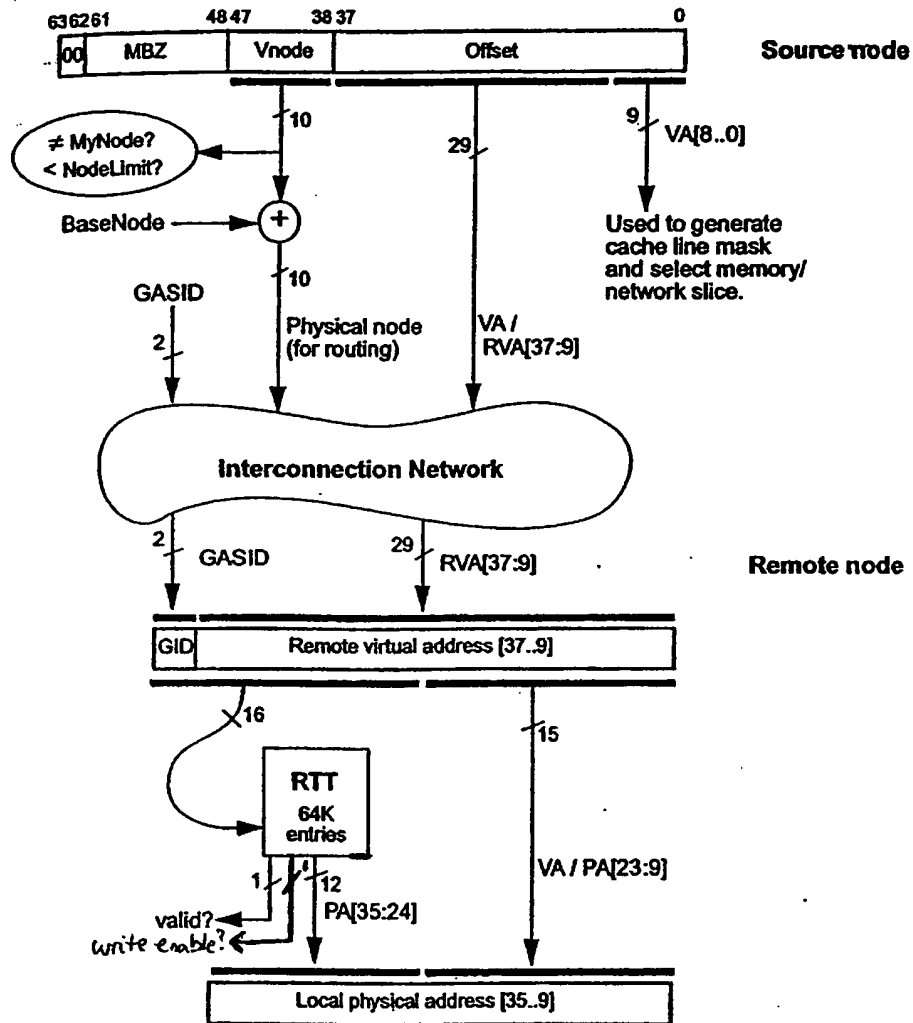
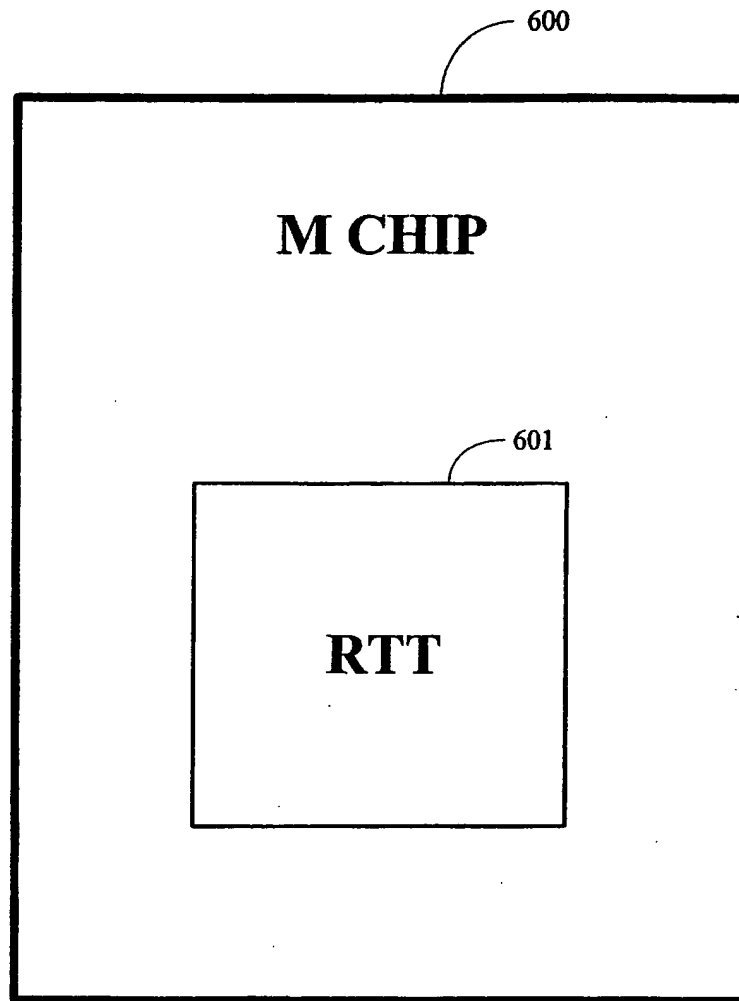
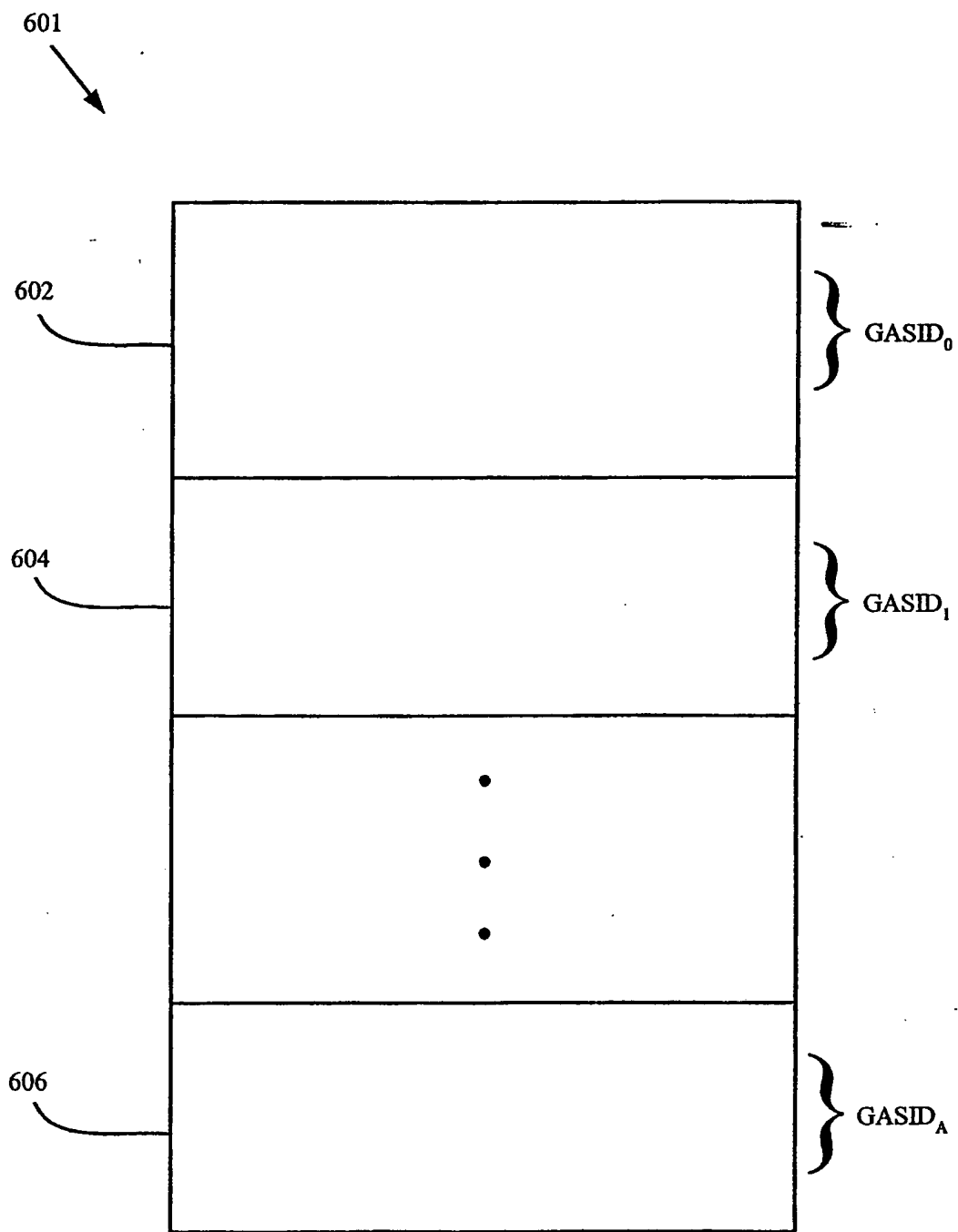


FIG. 5

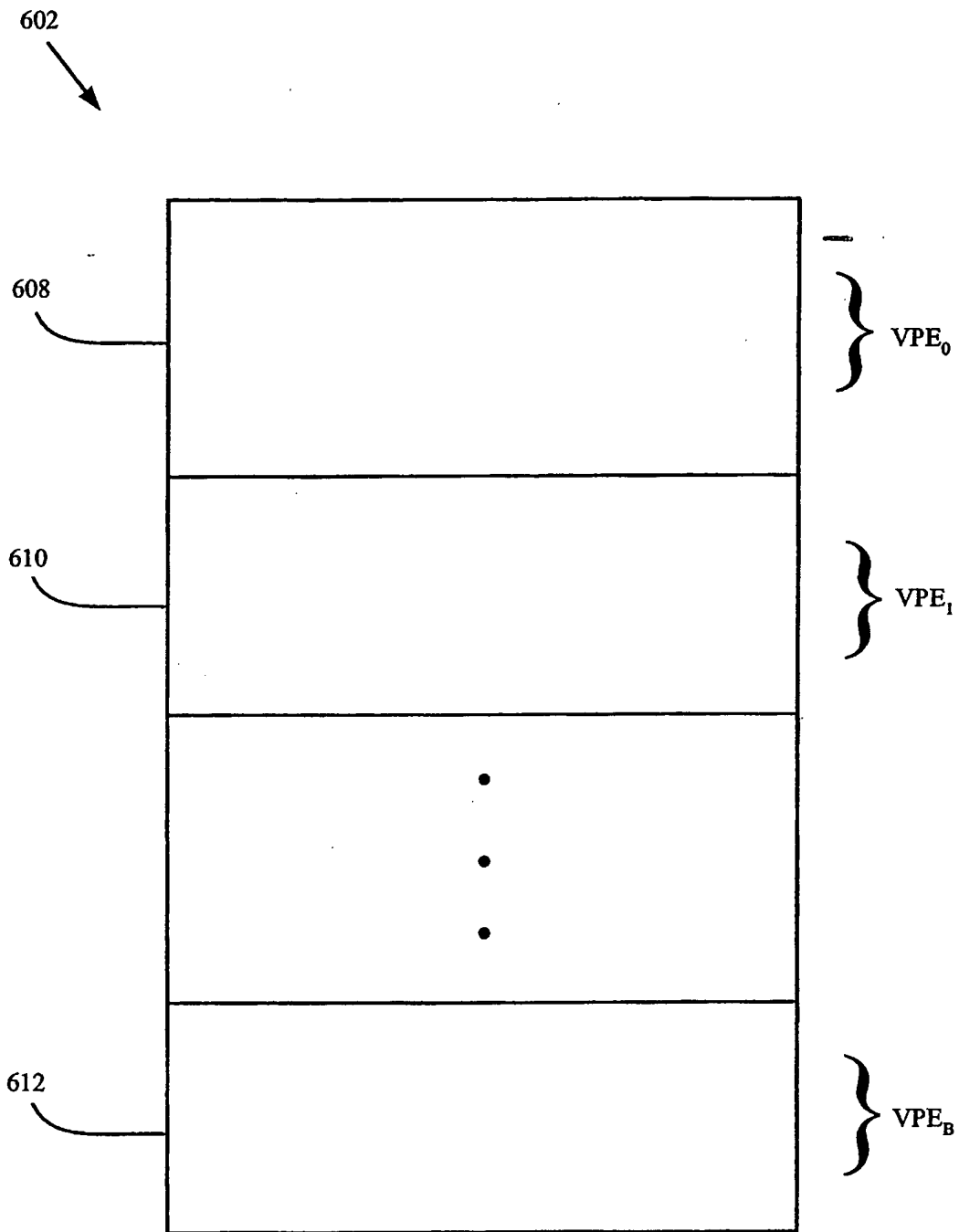


**FIG. 6A**

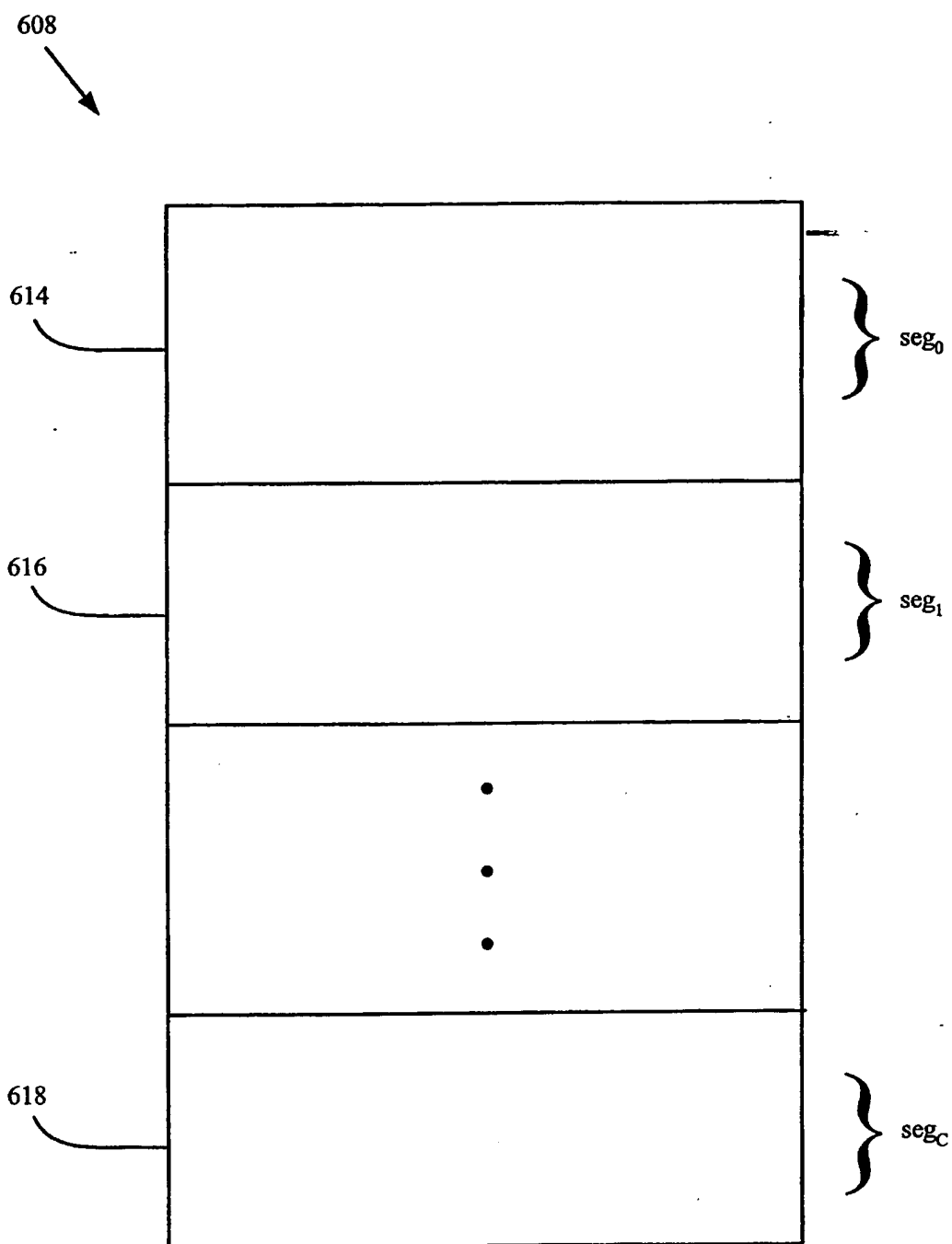


**FIG. 6B**





**FIG. 6C**



**FIG. 6D**

FIG. 7

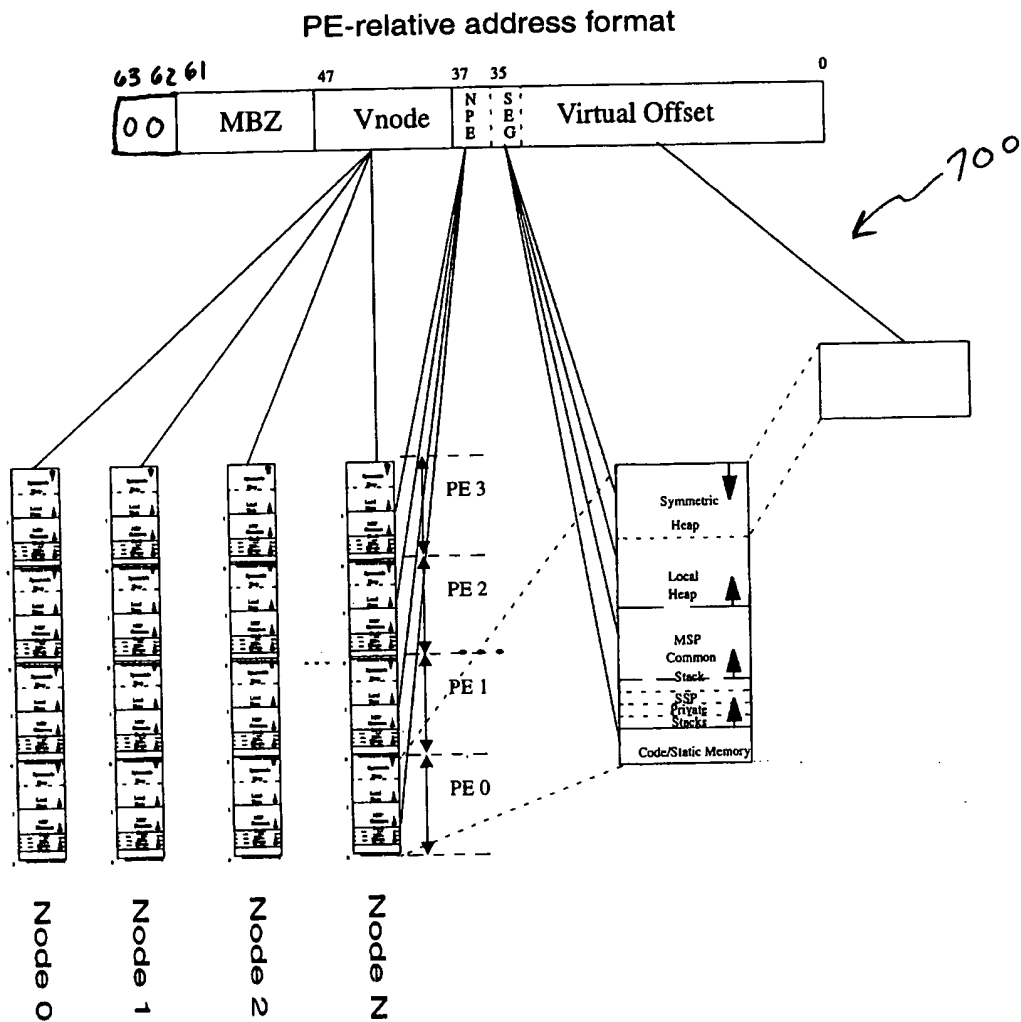


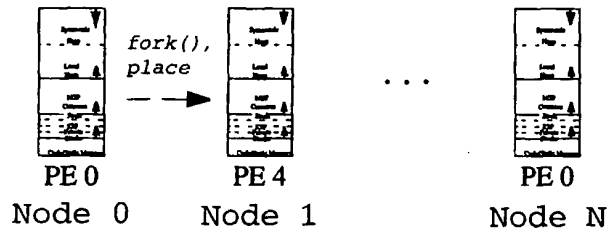
FIG. 8

1. Initial PE created at exec()



800

2. PEs are created across node space



3. Local address space and PEs created

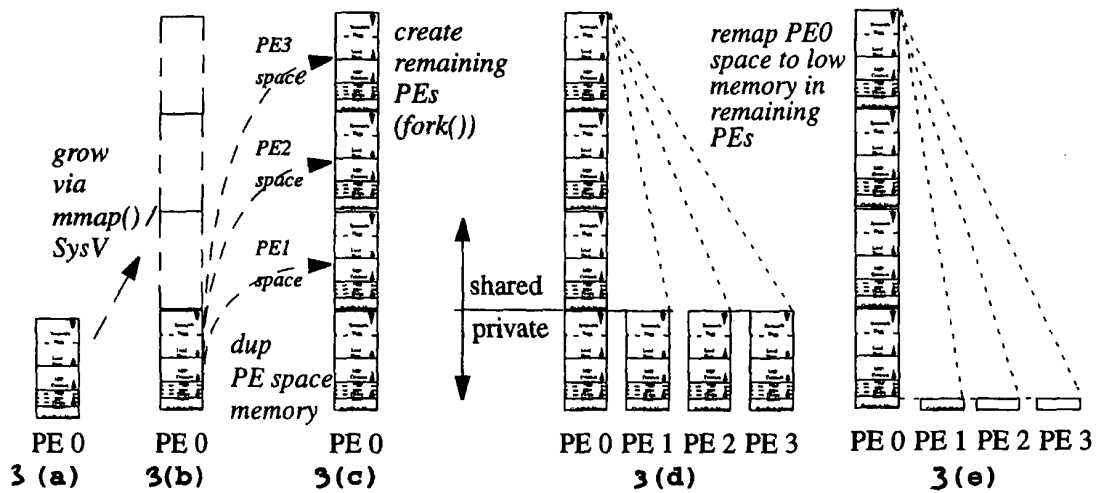
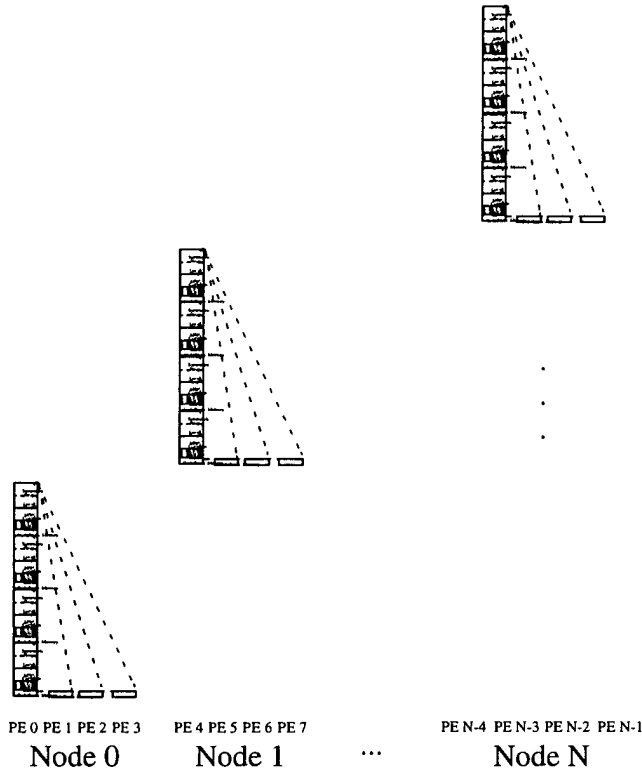


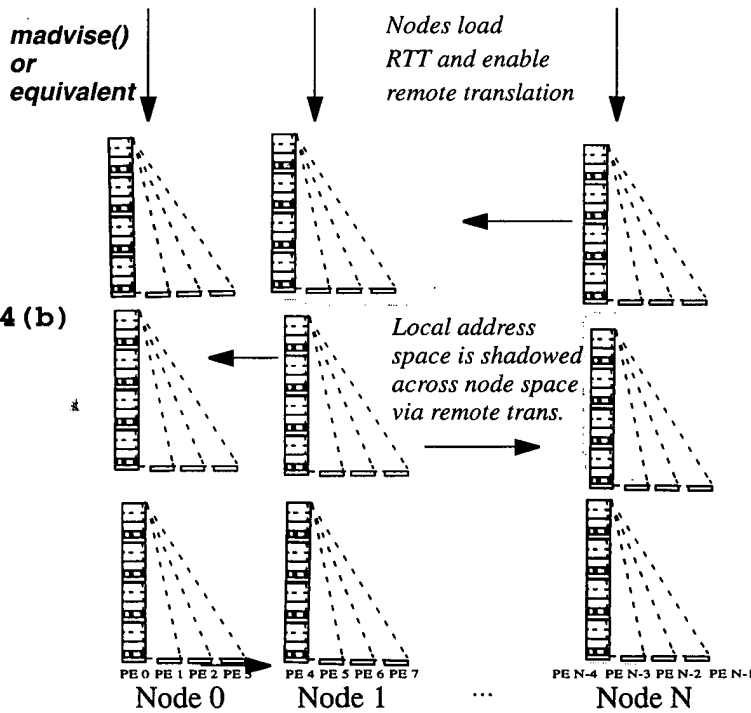
FIG. 9

4 (a)



*PEs executing in node-local source translation address spaces.*

4 (b)



*Each node loads its local RTT which shadows its address space into the job's global address space when remote translation is enabled.*

**FIG. 10**

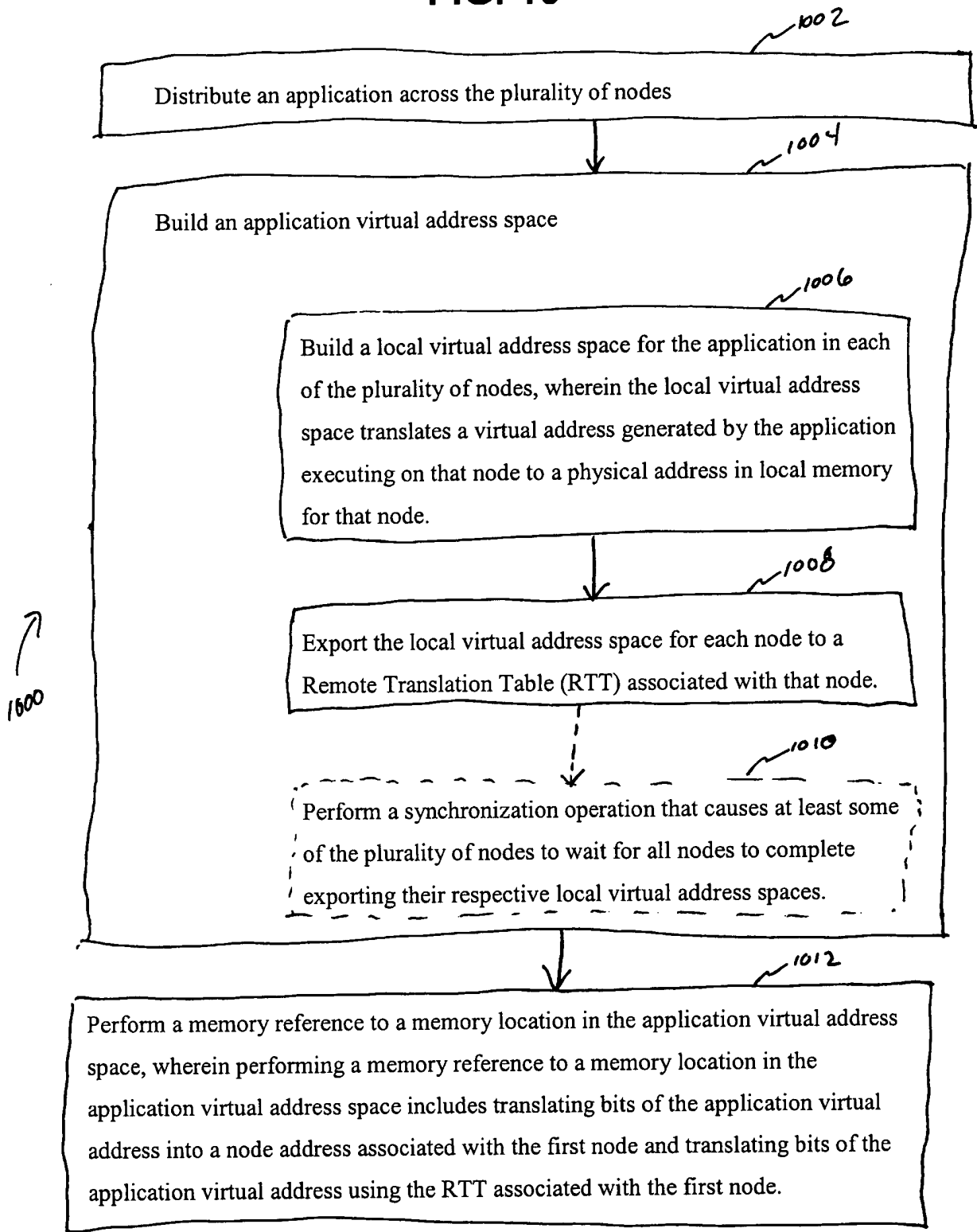


FIG. 11

